

United States Government

Department of Energy

memorandum

Richland Operations Office

DATE: JUN 11 2008

REPLY TO
ATTN OF: FMD:PJZ/08-FMD-0144SUBJECT: FISCAL YEAR (FY) 2010 ENVIRONMENTAL MANAGEMENT BUDGET SUBMITTAL
FOR THE U.S. DEPARTMENT OF ENERGY (DOE), RICHLAND OPERATIONS OFFICE
(RL)TO: J. A. Rispoli, Assistant Secretary
for Environmental Management, EM-1, HQ

Consistent with the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), we are requesting \$1,689.2M for FY 2010, which is required to continue to meet our commitment to clean up the legacy of the Hanford Site. This budget request fulfills a requirement of the Tri-Party Agreement between DOE, the Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology). This request also supports workscope to be accomplished consistent with federal environmental statutes, regulations, and permits that are not captured by the Tri-Party Agreement.

Our planning represents our efforts to align the challenges, both technical and fiscal, with our commitment to make significant cleanup progress at the Hanford Site and reduce the active cleanup footprint. In summary, with this baseline and over-baseline increment budget request, Richland will:

- Maintain safe and compliant facilities and essential services;
- clean up most of the River Corridor Area of the Hanford Site by 2015. This includes a focus on the River Corridor Project, K Basins Closure Project and River Corridor Groundwater Remediation;
- complete the demolition and decontamination of the Plutonium Finishing Plant by 2016;
- support essential infrastructure replacements and upgrades;
- continue transuranic waste retrieval from burial grounds;
- continue transuranic waste repackaging and continue shipments to Idaho National Laboratory and the Waste Isolation Pilot Project;
- continue Central Plateau groundwater and waste site characterization, including Remedial Investigation/Feasibility Studies;
- continue mixed low-level waste treatment;
- support the remote-handled transuranic waste capability project;
- remediate waste sites in the Central Plateau 200 Areas; and
- support U Plant Canyon remediation pilot project;
- Support the Natural Resource Trustee Council operations and Natural Resource Damage Assessment activities.

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At your request, we have also conducted a review of the tribal funding, provided through grants managed by Headquarters. Although not included in RL's FY 2010 budget request, we do support funding of \$6,574,550 to support their cooperative agreements and additional involvement in risk assessment activities at Hanford. Their involvement in these risk assessments is crucial to completion of the River Corridor cleanup by 2015. We will continue to engage in discussions with our tribal stakeholders to prepare for the opportunity to involve them directly in these activities, should this funding be provided.

Attachment 1 is a summary of the planned activities for FY 2010, including activities that would be accomplished with over-baseline incremental funding. This information is consistent with our briefings to your staff, the Hanford Advisory Board (HAB), regulators, and the public. In these briefings, we have also identified the following Tri-Party Agreement milestones that are at risk in FYs 2009 and 2010 due to technical issues:

- M-34-30, Initiate Sludge Treatment, December 31, 2008;
- M-34-00A, Complete Removal of K Basins and their Content, March 31, 2009;
- M-16-58, Initiate Soil Remediation at K West Basin, April 30, 2009; and
- M-16-52, Initiate Response Actions for Remaining Waste Sites for 100 K Area, July 31, 2009.

The following Tri-Party Agreement milestones are considered to be at risk in FYs 2009 and 2010 due to both technical and budget issues:

- M-16-56, Complete Interim Remedial Actions for 100-IU-2 and 100-IU-6, December 31, 2008;
- M-91-42K, Certify 5,400 Cubic Meters of Contact Handled Transuranic Waste, December 31, 2008;
- M-91-42L, Treat/Certify 6,600 Cubic Meters cumulative Contact Handled, Mixed Transuranic Waste, December 31, 2009; and
- M-91-42F, Complete Treatment of all Contact Handled, Mixed Low-Level Waste, December 31, 2009.

We have also identified the following Tri-Party Agreement milestones that are at risk in FYs 2009 and 2010 due to budget issues:

- M-91-40F, Retrieve 9,700 Cubic Meters of contact handled, retrievably-stored waste, December 31, 2008;
- M-91-43D, Treat 300 Cubic Meters of Mixed Low-Level Waste in Large Containers or Remote Handled, to Meet Land Disposal Restriction Requirements, June 30, 2010;
- M-91-42E, Treat 8,150 Cubic Meters of Mixed, Low-Level Waste, December 31, 2008;
- M-91-40G, Retrieve 12,200 Cubic Meters of Suspect Transuranic Waste from the Burial Ground, December 31, 2009;
- M-015-25C, Submit a Remedial Investigation (RI) Phase II Report for the 200-PO-1 Groundwater Operable Unit, December 30, 2009; and
- M-015-51, Submit a revised Feasibility Study Report and Proposed Plan for the 200 BC Cribs and Trenches for the New Operable Unit 200-BC-1 to EPA, April 30, 2010.


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We have discussed and continue to discuss these technical issues with EPA and Ecology in an effort to determine possible remedies or technical alternatives which would allow us to continue to show progress in these areas.

As part of Tri-Party Agreement Paragraph 148 and DOE's commitment to seek, collect and consider input in the development of Hanford's budget, we provided budget briefings and information to Ecology, EPA and the HAB during Richland's budget development process. In addition, RL and the Office of River Protection jointly held a public meeting to discuss the proposed FY 2010 budget request and cleanup priorities. Attachments 2 through 4 include comments received from Ecology, advice from the HAB, and comments received to date from the public for RL and ORP. The written comments are also available electronically on the Hanford website at www.hanford.gov. We will continue to collect comments until June 18, 2008. At that time, we will send all comments received to the EM Budget staff.

Efforts are ongoing to look at cleanup strategies that emphasize reduction of the active cleanup footprint thereby creating opportunity for increased investment in other areas such as the Transuranic waste treatment and retrieval and Central Plateau groundwater remediation and characterization. We will continue to seek input on cleanup priorities from our regulators, Tribes, stakeholders, and members of the public and others through June 18, 2008. That input will also be provided to DOE Headquarters for consideration in the development of the FY 2010 budget request for Hanford cleanup.

If you have any questions, please contact me, or your staff may contact Gregory A. Jones, Chief Financial Officer, on (509) 372-8977.



David A. Brockman
Manager

Attachments

cc w/attachs:

N. Ceto, EPA

J. Hedges, Ecology

S. S. Patel, EM 3.2

C. F. Rheaume, EM-31

C. D. West, EM 3.2

**Richland Operations Office
Planned Activities for Fiscal Year (FY) 2010 Request**

River Corridor Activities:

SNF Stabilization/Disposition (RL-0012)

FY 2010 Five Year Plan Accomplishments

- Maintain Safe & Compliant 100K facilities
- Continue Sludge Treatment Design
- Site wide services

Nuclear Facility D&D – River Corridor Closure Project (RL-0041)

FY 2010 Five Year Plan Accomplishments

- Maintenance of safety systems and operations in the 100 Area, 200 Area (Environmental Restoration Disposal Facility), 300 Area, 400 Area, and 600 Area.
- Surveillance and maintenance for inactive facilities, waste sites, and burial grounds in the 100 Area, 200 Area, 300 Area, 400 Area, and 600 Area.
- Initiate KE Basin soil remediation (TPA M-16-57)
- Continue D&D activities and Soil remediation in the 100 & 300 Area
- Initiate K East Interim Safe Storage.

Central Plateau Activities:

NM Stabilization/Disposition – Plutonium Finishing Plant (PFP) (RL-0011)

FY 2010 Five Year Plan Accomplishments

- Finish De-inventory of Special Nuclear Materials to the Canister Storage Building
- Complete transition of the Z-9 crib complex
- Maintain Plutonium Finishing Plant complex facilities
- Ramp up D&D at PFP facilities

FY 2010 Over Baseline Accomplishments

- Support additional PFP D&D activities

Solid Waste Stabilization/Disposition (RL-0013C)

FY 2010 Five Year Plan Accomplishments

- Operate the WRAP Facility, T Plant, and CWC to treat and store legacy and newly generated TRU/MLLW/LLW
- Provide interim storage of spent nuclear fuel and cesium and strontium capsules until dispositioned to an off-site repository
- Operate the 200 Area Liquid Effluent Treatment Facility (LETf) and Liquid Effluent Retention Facility (LERF) in support of 200 Area operations
- Operate the Mixed Waste Disposal Trenches

Richland Operations Office
Planned Activities for FY 2010 Request (Continued)

FY 2010 Over Baseline Accomplishments

- Continue suspect transuranic retrieval (Tri-Party Agreement Milestone M-91-40)
- Certify and ship transuranic waste to the Waste Isolation Pilot Plant (Tri-Party Agreement Milestone M-91-42)
- Treat mixed low-level waste (Tri-Party Agreement Milestone M-91-42)
- Treat 300 cubic meters of large and/or remote-handled mixed low-level waste (Tri-Party Agreement Milestone M-91-43)
- Design of M-91 large box/remote-handled Transuranic capability project (Tri-Party Agreement Milestone M-91-01)

Groundwater Protection (RL-0030)

FY 2010 Five Year Plan Accomplishments

- Operate and maintain groundwater remediation systems
- Continue groundwater integration activities and environmental data management
- Continue groundwater compliance monitoring
- Initiate new Pump and Treatment system and well network expansion at 100-D
- Drill monitoring wells as prescribed by Tri-Party Agreement Milestone M-24-00
- Continue River Corridor remedial investigation/feasibility studies and proposed plans

FY 2010 Over Baseline Accomplishments

- 200 Area Deep Vadose Zone Treatability Test
- New Pump and Treatment system and well network expansion in 200 West Area
- Initiate in-situ vadose zone remediation treatability test in the River Corridor
- Groundwater & Waste Site Remedial Investigations / Feasibility Study for the Central Plateau to support completion of Tri-Party Agreement Milestone series M-15-00
- Decommission groundwater wells

Nuclear Facility D&D – Remainder of Hanford (RL-0040)

FY 2010 Five Year Plan Accomplishments

- Maintain surveillance and maintenance for waste sites and facilities awaiting final disposition.
- Perform essential infrastructure replacements and upgrades
- Operations of HAMMER facilities

FY 2010 Over Baseline Increment

- Central Plateau soil remediation for U Area
- Remediation in the BC Control Zone
- Support U Plant Canyon remediation pilot project
- Continuation of the regulatory decision process for four canyon facilities

Richland Operations Office
Planned Activities for FY 2010 Request (Continued)

Nuclear Facility D&D – Fast Flux Test Facility (RL-0042)

FY 2010 Five Year Plan Accomplishments

- Continue long term Surveillance and Maintenance of FFTF Complex

Other Programs:

Safeguards and Security (RL-0020)

FY 2010 Five Year Plan Accomplishments

- Maintain protection of special nuclear materials
- Maintain site wide security
- Implement select life-cycle efficiency upgrades

Community and Regulatory Support (RL-0100)

FY 2010 Five Year Plan Accomplishments

- Continuation of grants to Emergency Preparedness, Ecology, Department of Health, and Oregon Department of Energy
- Continue funding Payment-in-Lieu of Taxes
- Support to permits and fees including Resource Conservation and Recovery Act Mixed Waste and Air Emissions
- Funding for the Hanford Advisory Board
- Funding for the Natural Resource Trustee Council operations
- Conduct an injury assessment phase of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Natural Resource Damage Assessment (NRDA) process at the Hanford Site in accordance with the April 3, 2007, Federal Trustees' Preassessment Determination for Hanford

FY 2010 Over Baseline Accomplishments

- Additional support identified by the Federal Trustees as necessary to fully support the injury assessment phase of the CERCLA NRDA process



Attachment 2

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

April 10, 2008

Mr. James A. Rispoli
Assistant Secretary
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Washington, D.C. 20585

Ms. Ines R. Triay
Principal Deputy Assistant Secretary
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Mr. David A. Brockman
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Richland Operations Office
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Richland, Washington 99352

Ms. Shirley J. Olinger
Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Re: United States Department of Energy (USDOE) Federal Fiscal Year 2010 Budget
Impacts and Consultation Process Requirements at Hanford

Ladies and Gentlemen:

The Federal Fiscal Year 2010 (FY10) budget request and the large compliance shortfalls for the Hanford cleanup effort are bleak and carry enormous impacts. The FY09 budget is equally bad.

I want to be clear that both the current budget and the baseline management process to this point have not met the requirements of the Hanford Federal Facility Consent Order (also known as the Tri-Party Agreement [TPA]).

I urge you to take action to improve the budget management process and to work with Ecology and the U.S. Environmental Protection Agency (EPA) to request the funding that is required to meet the TPA milestone commitments.

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DOE-RLCC

FY10 Budget and Baseline Process

The Tri-Party Agreement (Article XLVIII, paragraphs 148 and 149) requires USDOE to take all steps necessary to obtain compliance funding, including meaningful consultation with Ecology. Consultation includes disclosure of the cost of compliance, as well as the critical assumptions used by USDOE to determine the terms of compliance (that is, project-specific detail).

Ecology has taken part in numerous meetings with USDOE's Richland Operations Office and Office of River Protection to present and discuss the baseline and the critical related assumptions. Despite these meetings, we have not yet received the detailed information we requested. While USDOE considers the baseline to be official, certified, and complete, Ecology hasn't been given the opportunity to review or engage in its development. The certified baseline does not match the TPA cleanup schedule. Also, USDOE did not provide necessary information to the Hanford Advisory Board or the public, nor did they consult with the Tribal Nations and Oregon. Without meaningful involvement, Ecology cannot endorse the new USDOE baselines.

Integrated Priority List Needed

Ecology believes the three parties of the TPA need to prepare an Integrated Priority List to allocate additional cleanup funds as they become available. This list would demonstrate agreement between the three parties on near-term funding priority, and it should be shared with stakeholders and Tribal Nations.

Lifecycle Baseline Report Required

Ecology urges USDOE to immediately join EPA and Ecology in the preparation of a Lifecycle Baseline Report, as identified in the TPA negotiations in 2007. This report will involve and engage regulators and others in the planning necessary to manage the Hanford cleanup and move toward an acceptable end state. The report will be a living document that can be updated as project information evolves. It will provide a cost and technical basis that all parties can understand and will be useful in making informed decisions.

More Budget Flexibility for USDOE in FY10

For FY10, Ecology supports the consolidation of current mandated budget control points to align with the new contracts (for example, one budget control point for tank farm operations, one for central plateau, one for mission support). This would allow for better management of work by allowing USDOE to respond to changing field conditions and reallocate resources as required.

FY10 Funding Levels Will Cause Serious Impacts

Ecology's estimate of the compliance shortfall for FY10 is over 500 million dollars. Added to the FY09 shortfall, the total shortfall for these two years is well over a billion dollars. The compliance funding shortfall for the ten-year period (FY09 through FY18) is estimated by USDOE at 8 billion dollars. A shortfall of this magnitude will send shock waves throughout the cleanup. The shortfall will also require full-scale changes to the TPA, including the TPA milestones not included in the recent TPA negotiations.

Base Operations and Labor Cost Impacts

Under proposed FY09 and FY10 funding levels, actual cleanup and waste treatment and disposal nearly stops. Hundreds of millions of dollars will still be needed for so-called "base operations," which involve the surveillance and passive monitoring of contamination instead of remediation of the risk. To ensure that the funding Hanford receives is used in the most effective way to maximize actual cleanup results, Ecology requests that USDOE work with its contractors and regulators to review the "minimum safe" and "base operations" costs. Non-value-added management and operational costs need to be identified and reduced.

The funding shortfalls projected for FY09 and FY10 will also increase costs associated with shutting off and later restarting cleanup work. The cost of lay-offs, rehiring, and training new workers will result in workforce disruption and create a sizeable impact to the lifecycle cost of the cleanup.

FY10 Impacts to TPA Milestones

At the level of funding proposed in FY10, Hanford will experience significant negative impacts on these important environmental projects and related TPA milestones:

- Single-Shell Tank Retrieval Progress
- Early Low Activity Tank Waste Treatment
- Supplemental Tank Waste Treatment
- Groundwater and Vadose Zone Remediation
- River Corridor and K Basins Closure
- Central Plateau Soil Remediation
- Waste Retrieval, Management and Disposal


Ecology urges continued cleanup progress each year (2008, 2009, 2010, and beyond) for all these activities.

Mr. James A. Rispoli *et al*
April 10, 2008
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We recognize that Congress may not be able to fully restore all the funding to bring the cleanup back on schedule at this time. Therefore, I have enclosed an incremental funding list of activities for adding back work when and if funds become available.

Ecology remains interested in working with EPA and USDOE to overcome the funding challenges and to keep the Hanford cleanup moving forward.

Sincerely,



Jane A. Hedges
Program Manager
Nuclear Waste Program

ers/lkd
Enclosure

cc w/enc: Northwest Congressional Delegation
Rob McKenna, ATG
Nick Ceto, EPA
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Susan Leckband, HAB
Ken Niles, ODOE

Enclosure

**Washington State Department of Ecology
Incremental Funding Priority List for Hanford Cleanup
For Federal Fiscal Years 2009 and 2010**

In Order of Priority

1. Single-Shell Tank Retrieval:

Increase the number of tanks retrieved per year.

2. River Corridor Cleanup:

Keep on schedule to finish the entire project:

- Finish the 100 Area work scope by 2012.
- Finish the 300 Area work scope by 2018.
- Remediate the groundwater by 2024.

3. Central Plateau Groundwater and Completion of Plutonium Finishing Plant Cleanup:

Contain the Central Plateau plumes.

Continue cleanup and accelerated closure of the Plutonium Finishing Plant.

4. Interim Pretreatment System for Tank Waste:

Support the early low activity waste (LAW) treatment (early LAW and Interim Pretreatment System).

5. Supplemental Tank Waste Treatment Capacity:

Enable a sound and prompt decision on tank waste treatment technology and build the capacity to treat all the low activity tank waste.

6. Central Plateau Transuranic Waste Retrieval, Certification, and Backlog Mixed Waste Treatment and Disposal:

Keep the project progressing without the cost of stopping and restarting the work.

7. Central Plateau Soil Remediation and Building Demolition:

Get the cleanup underway in 2008 and keep it going each year from now on.

8. Support Other Cleanup Compliance Funding Needs.

HANFORD ADVISORY BOARD

Attachment 3

A Site Specific Advisory Board, Chartered under the Federal Advisory Committee Act

Advising:

US Dept of Energy
US Environmental
Protection Agency
Washington State Dept
of Ecology

CHAIR:

Susan Leckband

VICE CHAIR:

Rick Jansons

BOARD MEMBERS:

Local Business
Harold Heacock

Labor/Work Force
Mike Keizer
Thomas Carpenter
Susan Leckband
Jeff Luke
Rebecca Holland

Local Environment
Gene Van Liew

Local Government
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Pam Larsen
Rick Jansons
Rob Davis
Julie Jones
Richard Leitz
Bob Parks

Tribal Government
Russell Jim
Gabriel Bohnes

Public Health
Margery Swint
Jim Trombold

University
Doug Mercer
Gene Schreckhise

Public-at-Large
Norma Jean Germond
Keith Smith
Bob Parazin
Bob Suyama

**Regional Environ-
ment/Citizen**
Todd Martin
Greg deBruler
Paige Knight
Gerald Pollet
Susan Kreid

State of Oregon
Larry Clucas
Ken Niles

Ex-Officio
Confederated Tribes of
the Umatilla
Washington State
Department of Health

April 4, 2008

James Rispoli

Assistant Secretary for Environmental Management
EM-1/Forestal Building
U.S. Department of Energy
1000 Independence Avenue
Washington, D.C. 20585

Re: Priorities for Restoring Hanford Clean-Up Funding for FY 2009, with
Recommendations for Action Needed in 2008

Dear Mr. Rispoli,

The U.S. Department of Energy's (DOE) request for Hanford cleanup funding for Fiscal Year 2009 (FY 2009) falls hundreds of millions of dollars short of what is essential for the protection of the Columbia River water resources, public health and the environment. The requested FY 2009 funding level for Hanford cleanup is completely inadequate to comply with the Tri-Party Agreement (TPA) and other legal requirements. The Hanford Advisory Board (HAB or Board) in this advice details approximately \$200 million that needs to be added to the current budget request to maintain progress on critical projects.

Background

The 2009 budget is particularly troublesome given shortfalls in the budgets from 2005 through 2008. The 2008 appropriation and allocation for Hanford cleanup failed to fund work slated for completion in 2009. The FY 2009 budget request for Hanford cleanup is \$250 million less than if DOE merely requested level funding from 2005, which was the year before Hanford cleanup funding was supposed to begin to increase.

Hanford cleanup funding since FY 2005

[Shown in millions]

	FY 2005 Appropriation	FY 2007 Appropriation	FY 2008 Appropriation	FY 2009 Request
Department of Energy - Richland Operations Office (DOE-RL)				
River Corridor, soils, groundwater, reactor areas, facility D&D	\$937	\$870	\$897	\$862
Department of Energy - Office of River Protection (DOE-ORP)				
High-level waste tanks	\$391	\$277	\$286	\$288
Waste Treatment and Immobilization Plant (WTP) construction	\$685	\$690	\$684	\$690

*Safeguards and security costs excluded as non-cleanup, despite using cleanup funds

In the early part of this decade, DOE sought agreement from the regulatory agencies to defer some cleanup work at Hanford through 2006 in order for DOE to fund the accelerated cleanup and closure of smaller DOE facilities, such as Fernald (Ohio) and Rocky Flats (Colorado). DOE committed at that time to use the funds saved from cleanup and closure of these small sites to fund Hanford cleanup and other large contaminated DOE facilities starting in 2006. Had this commitment been honored, Hanford would be expected to receive approximately \$650 million more funding in FY 2009 than the President and Secretary of Energy requested.

The current shortfall adds to a backlog of safety and environmental problems that will continue to grow in coming years. DOE and the Office of Management and Budget (OMB) have adopted formal "target" and outyear budgets, which are \$5 to \$10 billion short of what is needed to fund the existing schedules and requirements through 2018 at Hanford.

Impacts from Inadequate Funding for 2008 and Requested for 2009

Tank waste retrieval and treatment

Only six of the 143 aging single shell tanks (SSTs) with very hazardous high-level nuclear mixed wastes have been emptied. The TPA deadline for emptying those tanks is 2018. DOE has formally proposed that the deadline be moved back by 22 years, to 2040. The President's budget request for FY 2009 provides funding to

retrieve the wastes from only one tank per year (estimated cost: \$16 million), and the target and outyear budgets adopted by DOE continue to fund retrieval from only one or two tanks per year for the next ten years. 2008 funding is mostly unavailable for waste retrieval as it is being used to recover from the high pressure spray release of high-level waste from tank S-102 last July.

Waiting until 2040 to retrieve wastes from the leaky SSTs will likely lead to further major contamination releases. Some tanks will be nearly 100 years old (long past their design life) by the time DOE attempts to retrieve waste from them. Their integrity is already suspect. DOE should begin retrieving wastes from four to ten SSTs per year between now and 2019.

Transuranic and mixed waste retrieval and treatment

Transuranic waste (TRU) (e.g. plutonium) "retrievably stored" in drums in unlined soil burial grounds since 1970 pose a serious safety, health and environmental hazard.

¹ DOE's budget request for DOE – Richland Operations Office (DOE-RL) and current year plans will cause DOE to breach TPA milestone M-91-40 for retrieval of the retrievably stored contact-handled TRU in the burial grounds by December 31, 2010. DOE will fall behind the TPA requirements in 2008, and will have failed to exhume 1,900 cubic meters (m3) of TRU by the end of FY 2009.²

The FY 2009 budget request for Project Breakdown Summary (PBS) RL-13C (Solid Waste Stabilization and Disposition) will, in DOE's own words, result in:

- "Slow downs of transuranic waste retrieval (RL-0013);"
- "Deferred design completion for the remote-handled TRU waste process capability (RL-0013)"; and,
- "Deferral of mixed low-level waste treatment and disposition (RL-0013)."³

The Board has long advised that DOE must begin full characterization and retrieval of the burial grounds and liquid waste discharge sites into which it disposed vast amounts of plutonium and transuranic wastes prior to 1970. The pre-1970 disposal of these wastes included far greater quantities of hazardous chemicals, which increase the mobility of the contamination as well as increasing the risks of human and environmental exposure, than the retrievably stored post-1970 TRU. Indeed, there is an estimated 18 times more plutonium and transuranic wastes in the pre-1970 soil sites than is covered by the TPA milestones for the retrievably stored, post-1970 TRU.⁴

Once retrieved, it is imperative for safety and environmental protection that the mixed wastes which are not shipped immediately to the Waste Isolation Pilot Plant (WIPP) as TRU be treated. Approximately 50% of the wastes exhumed from these burial grounds are mixed wastes requiring treatment. Prolonged storage (without treatment) of these wastes is illegal under the Resource Conservation and Recovery Act (RCRA) and State of Washington's Hazardous Waste Management Act (HWMA) because of the severe risks from storing uncharacterized and untreated wastes. Many of the wastes disposed with the TRU were chemicals used in processing plutonium or uranium. These included powerful solvents, volatile chemicals, flammable, ignitable and reactive hazardous wastes. Merely exposing some to air or water could pose a health and environmental risk, as could storing incompatible wastes next to each other.

Despite these high hazards, DOE has no funding identified to pay for the proper treatment of these mixed wastes in 2008 and requested no funds to pay for treatment in 2009. Storage would violate TPA requirements for DOE to reduce the backlog of stored wastes, rather than increase the backlog. The Board advises that funds be allocated in 2008 and 2009 to treat mixed wastes.

The Board recommends that Ecology communicate to DOE that it views DOE's failure to allocate funds this year, and failure to request funding for next year, for treatment of mixed wastes as a serious violation. If Ecology communicates this to DOE, then the treatment will be funded.

The TPA requires DOE to treat the thousands of cubic meters (m³) of mixed waste stored in the Hanford Central Waste Complex.⁵ DOE has failed to request the funds to treat these wastes in 2009. The cumulative effect of increases in these backlogs is a growing concern as DOE proposes to add more mixed waste to Hanford from other sites. In November, the Board advised (HAB Advice #203) that Ecology disallow such additional mixed waste as a provision in the TPA or the Hanford Site RCRA/HWMA permit, until existing wastes are brought into compliance and the impacts are known from the wastes which will be left.

Completion of the characterization of hundreds of contaminated soil and groundwater sites, which is delayed under DOE's budget plans, will provide a basis for assessing the risks associated with wastes which may remain in Hanford's soil and groundwater. This would also aid preparation of the risk assessments related to the Tank Closure and Waste Management Environmental Impact Statement. The disposal of offsite wastes at Hanford should not be permitted without completing the credible assessment of the risks from existing wastes and without assurance that

offsite wastes will not increase cumulative risks. Disposal capacity at this time must be reserved first for disposal of Hanford site wastes.

DOE's budgets have also led it to violate the requirement that it have treatment capacity to treat the extremely radioactive remote-handled TRU and large box contact-handled TRU by June 30, 2008 (M-91-43 requires treating 300 m³ per year starting in June 30, 2008; M-91-01 requires DOE to build or update the facilities needed to begin treating and processing all post-1970 TRU and TRU mixed waste by June 30, 2012). Failure to meet this milestone means that DOE will not be able to retrieve the remote-handled TRU from underground sites posing a risk to the Columbia River (618-10 and 11 burial grounds).

Central Plateau soil and groundwater

DOE's budget request for FY 2009 would almost completely eliminate all work to clean up the B/C cribs and trenches, to acquire pump and treat equipment to remove carbon tetrachloride and technetium 99 from the ZP-1 operable unit groundwater near the Plutonium Finishing Plant, and to delay all work on the U-Canyon area remediation. Funding should be restored to RL-40 as we advise below for these efforts.

DOE failed to request the funds necessary to begin actual characterization of these Central Plateau soil sites and has no plan to fund retrieval and treatment of the wastes from these dangerous sites. The Board advises that funding be provided for characterization, retrieval and treatment of these sites.

River Corridor cleanup

Cleanup along the Columbia River is also significantly compromised by the President's FY 2009 budget request. This will preclude meeting milestones to restore soil and surface use along the Hanford Reach National Monument and the gateway to the river shorelines, the 300 Area, by 2012. This is a high profile failure that denies Tribal and public hopes for access to the shoreline. Funding proposed at \$165 million for this project (PBS RL-41) is inadequate to meet major TPA milestones due in FY 2009, including those for the 300 Area, F-Area and 618-7 burial ground, while the cleanup milestones for the soils around the K-Basins will be missed due to the delays in emptying and removing the basins.

Inadequacy of funding for the River Corridor is impacted by DOE's plan to spend \$65 million over FY 2009 and FY 2010 for design of K-Basin sludge treatment. Design of this system was already done once. The Board requests DOE to explain the cost and need for this.

Advice: Priorities for restoring cleanup funds

The following are the Board's consensus recommendations for the specific increases in funding for DOE-RL and DOE-ORP which are not listed by priority but are needed to reduce the serious impacts from the inadequate funds requested for FY 2009.

Department of Energy – Richland Operations Office (listed by PBS)

Solid waste stabilization/disposition, RL-13C

\$50 million should be added to this PBS to provide the funding required in 2009 for treating mixed waste, retrieving post-1970 TRU, and to begin to move forward on the facilities which are essential for supporting characterization and packaging of remote-handled TRU and R-H mixed waste (M-91 in the TPA). This PBS was reduced by nearly \$70 million under the budget request.^{6 7}

\$50 million

River Corridor, RL-41

Funds should be restored for cleanup of the Columbia River Corridor in order to keep cleanup on track to open some areas along the river to public use in 2012. Our recommended funding level will reduce delays and keep the closure contract on track. The workforce has been trained to efficiently and safely demolish contaminated buildings and remediate waste sites. Maintaining the continuity of this unique workforce has saved DOE significant money over the years. Laying off a large number of these skilled employees sets the stage for having to rehire and retrain them in the future. Remediation work should also begin on the 618-10 and 11 burial grounds that contain very hazardous materials.

\$50 million

300 Area and other groundwater units, RL-30

The uranium and other contaminant plumes are spreading and increasing in concentration in the Central Plateau and along the Columbia River. Viable technologies are needed to remediate these plumes. Half of the apparent increase in

this PBS in the President's budget request is due to a transfer of \$30 million of work from another PBS (RL-13C), and is not a real increase in funded work. Funds are needed to begin active control of the spread of contamination in the Central Plateau as well as work on 100 Area groundwater units along the Columbia River.

\$25 million

Nuclear material stabilization and disposition, RL-11

These savings would occur if Congress requires DOE to fund movement of special nuclear material/plutonium for mixed oxide nuclear fuel and other programs using the appropriations for those nuclear energy or defense programs. Packaging and shipment of the material for use as mixed oxide or in other programs is not a proper EM expense.

\$35 million

Central Plateau soil; vadose zone/nuclear facility decontamination and decommissioning; remainder of Hanford, RL-40

This project is cut by \$12 million in the President's budget request, at a time when the work was supposed to begin for actual soil characterization and cleanup of seriously contaminated sites with spreading contamination.

\$15 million

Community and regulatory support, RL-100

DOE has failed to meet its commitment and legal obligation to fully fund operation of the Hanford Advisory Board.⁸ In addition, DOE-RL unsuccessfully requested \$2 million for FY 2009 to proceed with Natural Resource Damage Assessment activities under Comprehensive Environmental Response, Compensation, and Liability Act which DOE has agreed to do. This budget proposal reflects the decision to begin this process in a time frame where injury determinations can affect cleanup actions, therefore reducing eventual costs of meeting both cleanup and resource restoration legal requirements and minimizing additional injuries to natural resources during cleanup. Other increases are for regulatory and Tribal oversight.

\$4 million

Total additional DOE-RL funding needed (if non-cleanup work is not paid by EM): \$109 million

Department of Energy – Office of River Protection

The incremental funding recommended here for \$90 million will allow reasonable continuity and progress towards goals for treating wastes under the TPA. However, far more funding would be needed to put the program on track for emptying tanks, treating wastes and cleaning up leaks.

Early Low Activity Waste (LAW) facility startup; acceleration of the LAW facility
Emphasis within the WTP project should address the requirements to bring the LAW facility to hot operation as early as possible so that radioactive waste from SSTs can begin to be processed. The intent is to enable this important environmental risk reduction activity to begin soon, and incorporate sufficient LAW processing capacity as soon as practical so that the total WTP mission can be completed as early as technically practical. These efforts should include evaluating the options of starting the first LAW plant as early as possible, incorporating a third melter in the first LAW plant, beginning work on the second LAW plant as early as practical, and evaluating alternate glass formulations to address sulfate problems and other throughput capacity limitations.

\$16 million

Interim Pretreatment System

To provide retrieved SST waste feed to the WTP if there is early startup of the LAW facility (before the WTP pretreatment facility is operational), DOE-ORP has identified technical options for an Interim Pretreatment System. Funds need to be provided to support the systems analysis, and support project initiation efforts to proceed with such pretreatment capability to provide SST waste feed for the early startup of the LAW facility. In addition to shifting some priorities in the WTP project work for FY 2009 this work will need incremental funding of \$13 million. The Board recommends that none of the incremental funding be devoted to the bulk vitrification approach,⁹ which has funds in the baseline budget to conduct additional small-scale, cold non-radioactive tests.

\$13 million

SST waste retrieval and SST integrity

The tank farms are currently not funded to develop the necessary technical approaches for retrieval and to proceed with retrieval of multiple tanks per year. Removal of waste from tanks should be limited only by the availability of DST storage space and the WTP throughput, once hot startup of the WTP is achieved. Retrieval of waste from each SST costs on average \$16 million. Because the SSTs will be needed for waste storage for at least an additional decade as a result of the WTP delay in startup, it is essential to complete all aspects of SST integrity analysis and testing so that any corrective actions can be implemented to ensure safety of the work force and minimize risk to the environment.

\$40 million

Upgrade to the tank farm system

As early startup options for the WTP are considered, including supplemental, interim pretreatment systems in the 200 East and/or 200 West tank farms to support ongoing SST waste retrieval, the upgrades to the tank farms must be identified and implemented to ensure safety of the work force and minimize risk to the environment. Recent DOE-ORP Systems Plan considerations suggest that the rate and sequence of SST waste retrieval will become limited by the tank farm infrastructure to support retrieval. Appropriate upgrades need to be identified and planned to eliminate or minimize this constraint.

\$11 million

Soil contamination in the tank farms

Attention in the tank farms will shift to closing SST farms after the waste is retrieved. This closure appears to be delayed by years. The Board's advice may shorten those delays from decades (as sought by DOE) to years. Funds must be made available to initiate the characterization efforts associated with the contaminated soils and vadose zone in the tank farms. The Board's ideal for remedial action at all tank farm waste sites continues to be to first characterize, then retrieve, treat and dispose of all wastes. The waste that remains must be left in a facility or configuration that will be protective of human health and the environment for generations to come. Engineered barriers should be a last resort remedy. The term "engineered barrier" is synonymous with other terms commonly used to describe methods of protecting waste sites from long-term water infiltration (caps, covers, barriers, etc.). HAB Advice #174

\$10 million

Total additional DOE-ORP funding needed: \$90 million

Total additional Hanford cleanup funding (DOE-RL and DOE-ORP) advised for FY 2009 necessary to protect the environment, Columbia River resources and human health for present and future generations: \$199 million
(Non-cleanup work removed and funded from the appropriate accounts)

Sincerely,



Susan Leckband, Chair
Hanford Advisory Board

This advice represents HAB consensus for this specific topic. It should not be taken out of context to extrapolate Board agreement on other subject matters.

cc: David Brockman, Manager, U.S. Department of Energy Richland Operations Office
Shirley Olinger, Manager, U.S. Department of Energy Office of River Protection
Elin D. Miller, U.S. Environmental Protection Agency, Region 10
Jay Manning, Washington State Department of Ecology
Doug Shoop, Co-Deputy Designated Federal Official, U.S. Department of Energy, Office of River Protection
Steve Wiegman, Co-Deputy Designated Federal Official, U.S. Department of Energy, Richland Operations Office
Nick Ceto, Environmental Protection Agency
Jane Hedges, Washington State Department of Ecology
Doug Frost, U.S. Department of Energy Headquarters
The Oregon and Washington Congressional Delegations

END NOTES:

¹ DOE's own assessments of the relative prioritization which should be given to retrieving those wastes based on risks, said:

"If TRU waste retrieval operations do not occur, radioactive/hazardous waste will remain underground in deteriorating containers that have exceeded their design life potentially causing soil and eventually ground water contamination. There is a risk that ground water contamination could lead to radioactive/hazardous constituents reaching the Columbia River upstream of significant population centers...."

"There is increased risk to site workers...as the levels of contamination increase due to failing waste containers...The waste has been buried in containers that were not intended to be in the ground for more than twenty years."

FY 1997 Mission Planning Guidance and Unit of Analysis Sheet (#183, 185, 189);
2nd paragraph quote from: MPG-17, DOE, Sec. 4.4 and 4.5; third quote from: MPG-16, also MPG-17 for RH-TRU.

² The TPA requires DOE to retrieve 3000 m³ of Suspect TRU in 2008

- In 2008, DOE expects to retrieve 2,500 m³ (Briefing to Budget Contracts Committee [BCC] 2-12-08)
- In 2009, the TPA requires DOE to retrieve 2,500 m³ plus the 500 m³ it will fall behind in 2008.
- However, DOE only requested funding to retrieve 1,100m³ in 2009.
- To come back into compliance with the TPA, DOE would need to fund retrieval of 1,900m³ more suspect TRU than it plans to do in 2009.

³ Briefing to BCC 2-12-08; page 8.

⁴ DOE reporting documented in: "Transuranic Waste at Hanford: Large Quantities Lost", Heart of America Northwest, 2004. Available on www.hoanw.org, citing DOE's "Buried Transuranic - Contaminated-Waste Data Information for U.S. Department of Energy Facilities (2000)."

⁵ 8,150 m³ per TPA milestone M-91-42.2.E are required to be treated by 12.31/08. 81 m³ of RH-mixed waste were in storage as of 2002 awaiting treatment per M-91-43. None of this waste has been treated and DOE has not funded the treatment facility for this waste, which is extremely radioactive as well as having uncharacterized hazardous wastes which may be flammable, ignitable, reactive or corrosive.

⁶ We are aware that \$30 million of that decrease in the Request for RL-13C compared to FY 2008 is a transfer of groundwater work from RL-13C to another PBS. However, the funding level for 2008 fails to include mixed waste treatment, or the RH-TRU/RH-mixed waste treatment facility.

⁷ The Board asks DOE to explain why Canister Storage Building maintenance and operation should cost over \$20 million per year. The building is designed to store spent nuclear fuel and vitrified waste with minimal surveillance costs. In contrast, Fast Flux Test Facility surveillance and maintenance will be brought down to \$6.5 million.

⁸ The shortfall for the Board is less than \$200,000.

⁹ DOE-ORP identified \$54 million more for bulk vitrification as a top priority for additional funds. The Board disagrees with this and recommends against any additional funding. The Board recommends deleting \$1 million from RL-13C and

HANFORD ADVISORY BOARD

A Site Specific Advisory Board, Chartered under the Federal Advisory Committee Act

Advising:

US Dept of Energy
US Environmental
Protection Agency
Washington State Dept
of Ecology

April 4, 2008

CHAIR:

Susan Leckband

VICE CHAIR:

Rick Jansons

BOARD MEMBERS:

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Susan Kreid

State of Oregon
Larry Clucas
Ken Niles

Ex-Officio
Confederated Tribes of
the Umatilla
Washington State
Department of Health

James Rispoli

Assistant Secretary for Environmental Management
EM-1/Forestal Building
U.S. Department of Energy
1000 Independence Avenue
Washington, D.C. 20585

Re: FY 2010 Budget Requests for US Department of Energy

Dear Mr. Rispoli,

Introduction

The timely and effective cleanup of the Department of Energy's (DOE) Hanford Site is of significant concern to the residents of the Pacific Northwest. Protection of the Columbia River resource is a high priority. The Hanford Advisory Board's (HAB or the Board) initial comments regarding the development of the Fiscal Year 2010 (FY 2010) cleanup budget are provided in this advice.

The 2010 budget continues a pattern of under-funding seen since at least 2005. The Department of Energy-Richland Operations Office (DOE-RL) and the Department of Energy-Office of River Protection (DOE-ORP) will fall hundreds of millions of dollars short of meeting the agreed upon schedules for some of the TPA milestones. The shortfalls have led to delays and schedule extensions of the site cleanup program required by the Tri-Party Agreement (TPA).

At a recent public meeting on the FY 2010 budget planning by the DOE field offices, it was apparent that additional delays are expected to occur in the Hanford Site cleanup program as a result of inadequate funding to meet program commitments and TPA milestones. In previous years, DOE proposed the major cleanup sites accept reduced funding so that the funds made available could be utilized to expedite the cleanup of a number of the smaller DOE sites around the country. The cleanup programs at these smaller sites have largely been completed, but a commensurate increase in funding for the Hanford Site has not been realized.

DOE should work closely with the Environmental Protection Agency and the Washington State Department of Ecology in a publicly transparent process to identify and prioritize the various elements of the cleanup program to ensure its timely completion. We repeat our advice from November 2007 (HAB Advice #203) that a lifecycle cost and schedule report be provided showing how fast each cleanup project could be accomplished if planning were not constrained in DOE's adopted baselines and Five Year Plan.

The Board strongly believes that, as a minimum, the FY 2010 budget request must meet TPA commitments. Initial comments regarding specific FY 2010 cleanup program elements are provided below.

Advice

As DOE prepares the FY 2010 budget, the Board advises that consideration be given to the following comments:

Tank Waste Treatment

The safe storage and monitoring of the 53 million gallons of high level tank wastes are of the highest concern.

DOE-ORP should ensure that these tank wastes can be safely stored until they are retrieved for processing in the Waste Treatment and Immobilization Plant (WTP). DOE-ORP should evaluate the integrity of existing single shell tanks (SSTs) and a consideration of options for obtaining additional double shell tank (DST) space.

The Board advises that DOE should be prepared in 2010 to move ahead in 2008 and 2009 on recommendations of the feasibility of an early startup of the WTP Low Activity Waste (LAW) facility and the addition of a third melter to the LAW facility. The former will need significant additional funding, which has not been identified. However, early LAW startup will lower the overall WTP costs and overall costs and schedule for treating tank wastes by billions of dollars and many years. Likewise, the third melter may also provide significant benefits and contingency when the LAW facility starts up in 2013 or 2014. Additionally a supplemental treatment decision needs to be made regarding the provision of a second LAW facility and the need and location of any required pretreatment facility and supporting tank farm facility upgrades.

Every feasible effort should be made for an early startup of the WTP.

Tank Waste Retrieval

DOE should increase the current SST retrieval rate to minimize the risk posed by the wastes in the aging tanks. Once the WTP is operational, a higher rate of retrieval can be achieved. The minimum rate of retrieval should be four to five tanks per year. Proposals to go from one retrieval per year to two are not an acceptable response to the concerns for the environment and safety voiced by the public.

Characterization of soils contaminated by leaks should begin to increase in 2010. As wastes are retrieved from tank farms, it will be imperative to stem the spread of contamination from past leaks (or from leaks during retrieval) and begin active cleanup.

Groundwater and Vadose Zone

Additional funding should be provided for the characterization and necessary remediation of both the shallow and deep vadose zone contamination in the Central Plateau, waste sites adjacent to the Columbia River, and in the 300 Area.

The remediation of the carbon tetrachloride, chloroform, uranium, and technetium contamination in various locations on the site should receive additional funding to permit greater progress in the remediation of these specific groundwater contaminants.

Remediation of the vadose zone and the groundwater in the Central Plateau, other than the tank farms, must be completed by 2024 to comply with the TPA. This remediation would provide protection of the regional water resource.

Sufficient funding should be provided for the groundwater program without a reduction in facilities decontamination and decommissioning and soil remediation programs.

Central Plateau Soil and Waste Management

Cleanup work scheduled to start this year on the Central Plateau should be funded. Planning for retrieval and disposal of transuranic (TRU) wastes should include transuranic elements disposed of prior to 1970. This work will require a significant increase in funding. DOE's baseline assumes that immense areas of land - covered by 43 lineal miles of unlined disposal trenches and many more lineal miles of liquid

waste disposal trenches - will simply be capped without adequate characterization. The Board instead favors retrieving waste for treatment and proper disposal.

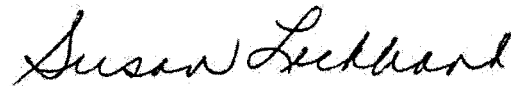
The retrieval, treatment and certification of TRU wastes for offsite disposal need to be adequately funded. Any additional facilities required for the TRU waste program should be provided. Remote-handled TRU facilities need to be available for operations to begin in 2012 in accordance with Waste Isolation Pilot Plant schedules. Treatment of mixed wastes cannot continue to be deferred, without creating a backlog of dangerous wastes stored without treatment.

The costs for Canister Storage Building maintenance and operation appear to be excessive at over \$20 million per year. The building is designed to store spent nuclear fuel and vitrified waste with minimal surveillance costs.

River Corridor Cleanup

Remaining cleanup work in the River Corridor including ground water, facility decontamination and decommissioning, and remediation of waste disposal sites must be completed by 2024 to comply with the TPA and to protect regional water resources. Funding for the completion of the K Reactor fuel storage basins and groundwater cleanup is currently inadequate.

Sincerely,



Susan Leckband, Chair
Hanford Advisory Board

This advice represents HAB consensus for this specific topic. It should not be taken out of context to extrapolate Board agreement on other subject matters.

cc: David Brockman, Manager, U.S. Department of Energy Richland
Operations Office
Shirley Olinger, Manager, U.S. Department of Energy Office of River
Protection
Elin D. Miller, U.S. Environmental Protection Agency, Region 10
Jay Manning, Washington State Department of Ecology
Doug Shoop, Co-Deputy Designated Federal Official, U.S. Department of
Energy, Office of River Protection

Steve Wiegman, Co-Deputy Designated Federal Official, U.S. Department
of Energy, Richland Operations Office
Nick Ceto, Environmental Protection Agency
Jane Hedges, Washington State Department of Ecology
Doug Frost, U.S. Department of Energy Headquarters
The Oregon and Washington Congressional Delegations

Below are the 5 comments we've received. Note that the first comment is not published because the author didn't grant permission for publishing. Also, the URL for viewing the comments on line is:

<http://www.hanford.gov/comments/?direct=view&tid=7&page=215&nav=homepage> .

There is also a hand written letter at the bottom as well.

The following comment has been submitted in response to DOE Hanford Site 2010 Budget Formulation:

Contact Information: User requested contact information privacy.

Comments: *Please address ground water safety. Please monitor ground water and stop the flow of radioactive contaminants towards the Columbia River.*

Author's permission granted to publish this comment: No

From: Webmaster@RL.gov [mailto:Webmaster@RL.gov]
Sent: Tuesday, April 01, 2008 12:53 PM
To: ^Webmaster
Subject: DOE Hanford Site 2010 Budget Formulation

The following comment has been submitted in response to DOE Hanford Site 2010 Budget Formulation:

Name: Rollosson , Dalena
Address: 1508 W. 19th Ave.
Kennewick WA 99337
E-mail: magdalena_rollosson@rl.gov

Comments: *What is the planned funding level for the retrieval, certification, and shipment of transuranic (TRU) waste from the Hanford Site to the Waste Isolation Pilot Plant for fiscal years (FY) 2009, 2010, and out-years? How does this compare to the budget for this work scope for FY 2007 and 2008? This is important work that has shown considerable progress in emptying the Hanford Site burial grounds of waste that has been in place far past the intended 20 years of storage. A percentage of these containers have badly corroded and breached, spilling radioactively contaminated waste and RCRA-regulated chemicals. The continuation of retrieval, certification, and shipment of TRU waste is needed to meet established Tri-Party Agreement milestones. If this work is not planned to be fully funded (i.e., at the same levels as FY 2007 and FY 2008 plus inflation) please explain why.*

Author's permission granted to publish this comment: Yes

From: Webmaster@RL.gov [mailto:Webmaster@RL.gov]
Sent: Thursday, April 17, 2008 7:24 AM

To: ^Webmaster
Subject: DOE Hanford Site 2010 Budget Formulation

The following comment has been submitted in response to DOE Hanford Site 2010 Budget Formulation:

Name: Lord , Dave
Address: 2550 Duportai

E-Mail Address: No e-mail address was provided

Comments: *I have been working on the VIT plant for over seven years and see it as an very important project to clean up the Hanford Site. During my time on the project, I have seen the real ups and downs due to the budget cuts. This has not helped the moral of the hard working employees, in recent years the budget has been stable. Please keep it that way, because it does not help the execution of the planned design and construct when the budget changes. In the long run cost will be less and the American public will not remember this project as being a well run. Instead it will be remember as a troubled project which it not a true reflection of the hard work put into it. Thanks
Dave*

Author's permission granted to publish this comment: Yes

From: Webmaster@RL.gov [mailto:Webmaster@RL.gov]
Sent: Sunday, April 20, 2008 7:41 PM
To: ^Webmaster
Subject: DOE Hanford Site 2010 Budget Formulation

The following comment has been submitted in response to DOE Hanford Site 2010 Budget Formulation:

Contact Information: User requested contact information privacy.

Comments: *I believe nuclear energy must be included as a component in solving the nation's energy needs. But the situation at Hanford puts nuclear energy's inclusion at risk. The Hanford site must be cleaned up as soon as possible We Have the time now to deal with this problem and demonstrate to skeptics that nuclear issues can be dealt with in a safe manner. But this will not happen if a budget shortfall is allowed to derail clean-up efforts. The government must get its enrgy priorties straight and Hanford clean-up needs to be a high priority. Hanford is the legacy of the effort that led to victory in two world wars. We must not let those victories turn to ashes in our own country.*

Author's permission granted to publish this comment: Yes

From: Webmaster@RL.gov [mailto:Webmaster@RL.gov]
Sent: Friday, April 25, 2008 10:34 AM
To: ^Webmaster
Subject: DOE Hanford Site 2010 Budget Formulation

The following comment has been submitted in response to DOE Hanford Site 2010 Budget Formulation:

Name: Todd-Robertson , Mary
Address: 5607 Holly Way
West Richland WA 99353
E-mail: todd_mary@clearwire.net

Comments: *I feel it's time we rethink the land use at the Hanford Site. Our country if facing a serious energy issue and as part of DOE's energy responsibilities, I would like to see other beneficial uses evaluated for the Hanford Site. For example, wind or solar energy technologies implemented at the Hanford Site could provide considerable power while ensuring institutional controls remain at the site. These types of opportunities could change the face of the cleanup at the Hanford Site by allowing short-lived radionuclides, such as cesium-137 and strontium-90, to remain in place to decay while ensuring that a safe surface environment exists that could be controlled to prevent inadvertent intrusion. Instead of having a sacrifice zone where the land is only used to manage waste, let's rethink that strategy and accomplish two goals...waste management and profitable beneficial use for the state and country. Money saved on digging up cesium and strontium waste only to move it a very short distance to ERDF could be redirected to applying appropriate surfaces (such as asphalt) to serve as a base for wind generators or for solar arrays (a tube-based system is being constructed in Nevada). The amount of energy produced could alleviate power issues at the site, especially for the vitrification plants, and could be added to the grid for use in Washington or for sale to other states. It's been a long time since we have looked at the land use and technology has changed immensely in the time since the Comprehensive Land Use Plan EIS was prepared. Let's take another look with an eye towards opportunity and not sacrifice. Just some thoughts from a long-time Hanford worker.*

Author's permission granted to publish this comment: Yes

John Schweiger
206 S. Post
Spokane, WA 99201

Department of Energy
P. O. Box 550
Richland, WA 99352

Sir:

What about lining the nuclear
waste tanks with thin shells
of stainless steel. If this were
well-made there would be no
leaks from the nuclear waste tanks
is there an interest in this?
How is this to be well-made?

John Schweiger

SPOKANE WA 992
24 APR 2008 PM 3 T

"LET US DARE TO READ,
THINK, SPEAK AND WRITE."
John Adams, 1786
powerofthepress.com

Department of Energy V. Tamer
P. O. Box 550 A2-15
Richland, WA 99352

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|||||

Task# DOE-FMD-C-2008-0144

E-STARS^R Report
Task Detail Report
06/06/2008 1108

TASK INFORMATION

Task#	DOE-FMD-C-2008-0144		
Subject	FISCAL YEAR (FY) 2010 ENVIRONMENTAL MANAGEMENT BUDGET SUBMITTAL FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE (RL)		
Parent Task#		Status	Open
Reference		Due	
Originator	Castleberry, Connie J	Priority	High
Originator Phone	(509) 376-5363	Category	None
Origination Date	05/22/2008 1521	Generic1	
Remote Task#		Generic2	
Deliverable	None	Generic3	
Class	None	View Permissions	Normal
Instructions	<p>bcc: FMD Off File FMD Rdg File K. Andrews-Smith, FMD K. Ballinger, OEC M. Coronado, FMD R. Carosino, OCC K. Flynn, SES J. Franco, AMRC C. French, OEC J. Frey, AMMS G. A. Jones, AMA M. McCormick, AMCP S. Ortiz, PIC J. Peschong, PIC D. Shoop, DEP J. Ward, MGR P. Zimmerman, FMD</p> <p>RECORD NOTE: This memo submits to EM HQ RL's budget request for FY 2010 which is required to continue to clean up the legacy of the Hanford Site. Comments have been received and incorporated from FPDs and PCOs.</p>		

ROUTING LISTS

1	Signature List	Active
	<ul style="list-style-type: none"> Shoop, Doug S - Approve - Awaiting Response - Due Date Instructions: 	
	<ul style="list-style-type: none"> Brockman, David A - Approve - Awaiting Response - Due Date Instructions: 	
2	Route List	Inactive
	<ul style="list-style-type: none"> Zimmerman, Pamela J - Approve - Approved - 05/27/2008 1218 Instructions: 	
	<ul style="list-style-type: none"> Andrews-Smith, Kathy L - Approve - Approved - 05/27/2008 1035 Instructions: 	

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JUN 11 2008
DOE-RLCC

Task# DOE-FMD-C-2008-0144	
	<ul style="list-style-type: none"> Coronado, Mark A - Approve - Approved with comments - 05/28/2008 1250 <i>Instructions:</i>
	<ul style="list-style-type: none"> Jones, Gregory A - Approve - Approved with comments - 05/28/2008 1528 <i>Instructions:</i>
	<ul style="list-style-type: none"> Franco, Jose R - Approve - Cancelled - 06/06/2008 1108 <i>Instructions:</i> ↳ <i>Routing List:</i> Route List - Inactive <i>Instructions:</i> <ul style="list-style-type: none"> Kautzky, Jim D - Approve - Approved - 06/04/2008 1450 Almquist, Rodney A - Approve - Approved - 06/05/2008 0720 Balone, Steven N - Approve - Approved - 06/05/2008 0731
	<ul style="list-style-type: none"> McCormick, Matthew S - Approve - Approved with comments - 06/02/2008 1705 <i>Instructions:</i> ↳ <i>Routing List:</i> Route List - Inactive <i>Instructions:</i> <ul style="list-style-type: none"> Mattlin, Ellen M - Approve - Approved - 05/29/2008 1558 Romine, Larry D - Approve - Cancelled - 05/29/2008 1724 Morse, John G - Approve - Cancelled - 05/29/2008 1724 French, Mark S - Approve - Cancelled - 05/29/2008 1724 Teynor, Thomas K - Approve - Cancelled - 05/29/2008 1724 <i>Routing List:</i> Route List - Inactive <i>Instructions:</i> <ul style="list-style-type: none"> Romine, Larry D - Approve - Approved - 05/29/2008 1749 Morse, John G - Approve - Approved - 05/30/2008 0709 French, Mark S - Approve - Approved - 05/30/2008 1348 Teynor, Thomas K - Approve - Approved - 05/30/2008 0748
	<ul style="list-style-type: none"> Carosino, Robert M - Approve - Approved with comments - 06/02/2008 1322 <i>Instructions:</i>
	<ul style="list-style-type: none"> Peschong, Jon C - Approve - Approved - 06/02/2008 0728 <i>Instructions:</i> ↳ <i>Routing List:</i> Route List - Draft <i>Instructions:</i> <i>Routing List:</i> Route List - Inactive <i>Instructions:</i> <ul style="list-style-type: none"> Ortiz, Shannon M - Approve - Approved - 05/30/2008 0845
	<ul style="list-style-type: none"> Weil, Stephen R - Approve - Approved - 05/30/2008 0946 <i>Instructions:</i>
	<ul style="list-style-type: none"> Flynn, Karen L - Approve - Approved with comments - 05/30/2008 1225 <i>Instructions:</i>
	<ul style="list-style-type: none"> French, Colleen C - Approve - Approved - 06/06/2008 1102 <i>Instructions:</i>
	<ul style="list-style-type: none"> Andrews-Smith, Kathy L - Approve - Approved - 05/28/2008 1322 <i>Instructions:</i>
ATTACHMENTS	
Attachments	1. 08-FMD-0144 Attach 1.doc 2. 08-FMD-0144 Attach 2.pdf 3. 08-FMD-0144 Attach 3.pdf 4. 08-FMD-0144 Attach 4.pdf 5. 08-FMD-0144pjz.doc
COLLABORATION	
COMMENTS	

Task# DOE-FMD-C-2008-0144	
Poster	Coronado, Mark A (Castleberry, Connie J) - 05/28/2008 1205
	Approve
	MARK CORONADO APPROVED BY HARD COPY 05-28-08
Poster	Jones, Gregory A (Castleberry, Connie J) - 05/28/2008 0305
	Approve
	MARK CORONADO CONCURRED BY HARD COPY AS ACTING FOR GREG JONES 05-28-08
Poster	Flynn, Karen L (Anderson, Cindy L) - 05/30/2008 1205
	Approve
	Concurred via hard copy.
Poster	Carosino, Robert M (Corbin, Peggy A) - 06/02/2008 0106
	Approve
	Approve. RMCarosino 6/2/08
Poster	McCormick, Matthew S - 06/02/2008 0506
	Approve
	Hard copy of my comments provided to Pam Zimmerman for incorporation
Poster	Castleberry, Connie J (Spitz, Vickie B) - 06/06/2008 1106
	Corrections Made
	I added CD West and SS Patel - EM 3.2 on cc required on all RL correspondence to HQ. I changed and moved bullets to correct format. Rich Buel concurred for Colleen French. Added DS Shoop to concurrence for approval before Manager's signature.
TASK DUE DATE HISTORY	
No Due Date History	
SUB TASK HISTORY	
No Subtasks	

-- end of report --

Task# DOE-FMD-C-2008-0144

E-STARs[®] Report
Task Detail Report
06/06/2008 1002

TASK INFORMATION

Task#	DOE-FMD-C-2008-0144		
Subject	FISCAL YEAR (FY) 2010 ENVIRONMENTAL MANAGEMENT BUDGET SUBMITTAL FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE (RL)		
Parent Task#		Status	Open
Reference		Due	
Originator	Castleberry, Connie J	Priority	High
Originator Phone	(509) 376-5363	Category	None
Origination Date	05/22/2008 1521	Generic1	
Remote Task#		Generic2	
Deliverable	None	Generic3	
Class	None	View Permissions	Normal
Instructions	<p>bcc: FMD Off File FMD Rdg File K. Andrews-Smith, FMD K. Ballinger, OEC M. Coronado, FMD R. Carosino, OCC K. Flynn, SES J. Franco, AMRC C. French, OEC J. Frey, AMMS G. A. Jones, AMA M. McCormick, AMCP S. Ortiz, PIC J. Peschong, PIC D. Shoop, DEP J. Ward, MGR P. Zimmerman, FMD</p> <p>RECORD NOTE: This memo submits to EM HQ RL's budget request for FY 2010 which is required to continue to clean up the legacy of the Hanford Site. Comments have been received and incorporated from FPDs and PCOs.</p>		

ROUTING LISTS

1	Route List	Active
	<ul style="list-style-type: none"> ● Zimmerman, Pamela J - Approve - Approved - 05/27/2008 1218 <i>Instructions:</i> 	
	<ul style="list-style-type: none"> ● Andrews-Smith, Kathy L - Approve - Approved - 05/27/2008 1035 <i>Instructions:</i> 	
	<ul style="list-style-type: none"> ● Coronado, Mark A - Approve - Approved with comments - 05/28/2008 1250 <i>Instructions:</i> 	
	<ul style="list-style-type: none"> ● Jones, Gregory A - Approve - Approved with comments - 05/28/2008 1528 <i>Instructions:</i> 	
	<ul style="list-style-type: none"> ● Franco, Jose R - Approve - Delegated - 05/30/2008 1249 <i>Instructions:</i> <i>Routing List:</i> Route List - Active 	

Task# DOE-FMD-C-2008-0144**↳ Instructions:**

- Kautzky, Jim D - Approve - Approved - 06/04/2008 1450
- Almquist, Rodney A - Approve - Approved - 06/05/2008 0720
- Balone, Steven N - Approve - Approved - 06/05/2008 0731

- McCormick, Matthew S - Approve - Approved with comments - 06/02/2008 1705

↳ Routing List: Route List - Inactive

- Instructions:**
- Mattlin, Ellen M - Approve - Approved - 05/29/2008 1558
 - Romine, Larry D - Approve - Cancelled - 05/29/2008 1724
 - Morse, John G - Approve - Cancelled - 05/29/2008 1724
 - French, Mark S - Approve - Cancelled - 05/29/2008 1724
 - Teynor, Thomas K - Approve - Cancelled - 05/29/2008 1724

Routing List: Route List - Inactive

- Instructions:**
- Romine, Larry D - Approve - Approved - 05/29/2008 1749
 - Morse, John G - Approve - Approved - 05/30/2008 0709
 - French, Mark S - Approve - Approved - 05/30/2008 1348
 - Teynor, Thomas K - Approve - Approved - 05/30/2008 0748

- Carosino, Robert M - Approve - Approved with comments - 06/02/2008 1322

- Peschong, Jon C - Approve - Approved - 06/02/2008 0728

↳ Routing List: Route List - Draft**Instructions:**

- Routing List: Route List - Inactive**
- Instructions:**
- Ortiz, Shannon M - Approve - Approved - 05/30/2008 0845

- Weil, Stephen R - Approve - Approved - 05/30/2008 0946

- Flynn, Karen L - Approve - Approved with comments - 05/30/2008 1225

- French, Colleen C - Approve - Awaiting Response - Due Date

Instructions: Rich Bink For Colleen French 6-6-08

- Andrews-Smith, Kathy L - Approve - Approved - 05/28/2008 1322

ATTACHMENTS**Attachments**

1. 08-FMD-0144 Attach 1.doc
2. 08-FMD-0144 Attach 2.pdf
3. 08-FMD-0144 Attach 3.pdf
4. 08-FMD-0144 Attach 4.pdf
5. 08-FMD-0144pjz.doc

COLLABORATION**COMMENTS****Poster**

Coronado, Mark A (Castleberry, Connie J) - 05/28/2008 1205

Approve

MARK CORONADO APPROVED BY HARD COPY 05-28-08

Poster

Jones, Gregory A (Castleberry, Connie J) - 05/28/2008 0305

Approve

Task# DOE-FMD-C-2008-0144	
	MARK CORONADO CONCURRED BY HARD COPY AS ACTING FOR GREG JONES 05-28-08
Poster	Flynn, Karen L (Anderson, Cindy L) - 05/30/2008 1205
	Approve
	Concurred via hard copy.
Poster	Carosino, Robert M (Corbin, Peggy A) - 06/02/2008 0106
	Approve
	Approve. RMCarosino 6/2/08
Poster	McCormick, Matthew S - 06/02/2008 0506
	Approve
	Hard copy of my comments provided to Pam Zimmerman for incorporation
TASK DUE DATE HISTORY	
<i>No Due Date History</i>	
SUB TASK HISTORY	
<i>No Subtasks</i>	

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Task# DOE-FMD-C-2008-0144

E-STARS^R Report
Task Detail Report
05/27/2008 1218

TASK INFORMATION

Task#	DOE-FMD-C-2008-0144		
Subject	FISCAL YEAR (FY) 2009 ENVIRONMENTAL MANAGEMENT BUDGET SUBMITTAL FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE (RL)		
Parent Task#		Status	Open
Reference		Due	
Originator	Castleberry, Connie J	Priority	High
Originator Phone	(509) 376-5363	Category	None
Origination Date	05/22/2008 1521	Generic1	
Remote Task#		Generic2	
Deliverable	None	Generic3	
Class	None	View Permissions	Normal
Instructions	<p>bcc: FMD Off File FMD Rdg File K. Andrews-Smith, FMD K. Ballinger, OEC M. Coronado, FMD R. Carosino, OCC K. Flynn, SES J. Franco, AMRC C. French, OEC J. Frey, AMMS G. A. Jones, AMA M. McCormick, AMCP S. Ortiz, PIC J. Peschong, PIC D. Shoop, DEP J. Ward, MGR P. Zimmerman, FMD</p> <p>RECORD NOTE: This memo submits to EM HQ RL's budget request for FY 2010 which is required to continue to clean up the legacy of the Hanford Site. Comments have been received and incorporated from FPDs and PCOs.</p>		

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1	Route List	Active
	<ul style="list-style-type: none"> Zimmerman, Pamela J - Approve - Approved - 05/27/2008 1218 <i>Instructions:</i> Andrews-Smith, Kathy L - Approve - Approved - 05/27/2008 1035 <i>Instructions:</i> Coronado, Mark A - Approve - Awaiting Response - Due Date <i>Instructions:</i> 	

ATTACHMENTS

Attachments	<ol style="list-style-type: none"> 08-FMD-0144 Attach 1.doc 08-FMD-0144 Attach 2.pdf 08-FMD-0144 Attach 3.pdf 08-FMD-0144 Attach 4.pdf 08-FMD-0144pjz.doc
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MAC
5/28/08

Task# DOE-FMD-C-2008-0144**COLLABORATION****COMMENTS***No Comments***TASK DUE DATE HISTORY***No Due Date History***SUB TASK HISTORY***No Subtasks**-- end of report --*

Task# DOE-FMD-C-2008-0144

E-STARS^R Report
Task Detail Report
05/28/2008 1254

TASK INFORMATION

Task#	DOE-FMD-C-2008-0144		
Subject	FISCAL YEAR (FY) 2009 ENVIRONMENTAL MANAGEMENT BUDGET SUBMITTAL FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE (RL)		
Parent Task#		Status	Open
Reference		Due	
Originator	Castleberry, Connie J	Priority	High
Originator Phone	(509) 376-5363	Category	None
Origination Date	05/22/2008 1521	Generic1	
Remote Task#		Generic2	
Deliverable	None	Generic3	
Class	None	View Permissions	Normal
Instructions	bcc: FMD Off File FMD Rdg File K. Andrews-Smith, FMD K. Ballinger, OEC M. Coronado, FMD R. Carosino, OCC K. Flynn, SES J. Franco, AMRC C. French, OEC J. Frey, AMMS G. A. Jones, AMA M. McCormick, AMCP S. Ortiz, PIC J. Peschong, PIC D. Shoop, DEP J. Ward, MGR P. Zimmerman, FMD RECORD NOTE: This memo submits to EM HQ RL's budget request for FY 2010 which is required to continue to clean up the legacy oif the Hanford Site. Comments have been received and incorporated from FPDs and PCOs.		

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	• Andrews-Smith, Kathy L - Approve - Approved - 05/27/2008 1035 <i>Instructions:</i>	
	• Coronado, Mark A - Approve - Approved with comments - 05/28/2008 1250 <i>Instructions:</i>	
	• Jones, Gregory A - Approve - Awaiting Response - Due Date <i>Instructions:</i>	
	• Franco, Jose R - Approve - Awaiting Response - Due Date <i>Instructions:</i>	

MAC for 5/28/08

Task# DOE-FMD-C-2008-0144

- McCormick, Matthew S - Approve - Awaiting Response - Due Date
Instructions:
- Carosino, Robert M - Approve - Awaiting Response - Due Date
Instructions:
- Peschong, Jon C - Approve - Awaiting Response - Due Date
Instructions:
- Weil, Stephen R - Approve - Awaiting Response - Due Date
Instructions:
- Flynn, Karen L - Approve - Awaiting Response - Due Date
Instructions:
- French, Colleen C - Approve - Awaiting Response - Due Date
Instructions:
- Andrews-Smith, Kathy L - Approve - Awaiting Response - Due Date
Instructions:

ATTACHMENTS

- | | |
|-------------|---|
| Attachments | <ol style="list-style-type: none">1. 08-FMD-0144 Attach 1.doc2. 08-FMD-0144 Attach 2.pdf3. 08-FMD-0144 Attach 3.pdf4. 08-FMD-0144 Attach 4.pdf5. 08-FMD-0144pjz.doc |
|-------------|---|

COLLABORATION**COMMENTS**

- | | |
|---------------|--|
| Poster | Coronado, Mark A (Castleberry, Connie J) - 05/28/2008 1205 |
| | Approve |
| | MARK CORONADO APPROVED BY HARD COPY 05-28-08 |

TASK DUE DATE HISTORY*No Due Date History***SUB TASK HISTORY***No Subtasks*

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